

CLAIMS

1. A hardware combination for use with a tilt-out type window sash, comprising:
a pivot bar adapted to be received in a first aperture formed in a window sash; and
a tilt latch adapted to be received in a second aperture formed in a window sash, wherein
the first aperture and the second aperture have substantially common profiles, such that the pivot
bar and the tilt latch are interchangeably locatable therein.
2. The hardware combination of claim 1, wherein the tilt latch comprises a body and a
retractable member for selectively engaging a jamb channel when the body is received in a
window sash aperture.
3. The hardware combination of claim 2, wherein the member is biased in an extended
position from the body to engage the jamb channel.
4. The hardware combination of claim 3, wherein the tilt latch further comprises a release
for retracting and disengaging the member from the jamb channel.
5. The hardware combination of claim 1, wherein the tilt latch further comprises a tab for
retaining the body in a window sash when received in a window sash aperture.
6. The hardware combination of claim 1, wherein the pivot bar and the tilt latch each
comprise a top surface for engaging a respective portion of a profile of the aperture formed in the
window sash, the top surface of the pivot bar and the top surface of the tilt latch having
substantially common mating perimeters.
7. The hardware combination of claim 1, wherein the pivot bar and the tilt latch each
comprise a front surface for engaging a respective portion of a profile of the aperture formed in
the window sash, the front surface of the pivot bar and the front surface of the tilt latch having
substantially common mating perimeters.
8. A sash for a tilt-out type window assembly, comprising:
a first sash portion forming a first aperture for receiving a tilt latch; and
a second sash portion forming a second aperture for receiving a pivot bar, wherein the
first aperture and the second aperture comprise substantially common profiles, such that the pivot
bar and the tilt latch are interchangeably locatable therein.

9. The sash of claim 8, further comprising a third sash portion forming a third aperture for receiving a second pivot bar, wherein the profile of the third aperture is substantially common to the profile of the second aperture.
10. The sash of claim 9, further comprising a fourth sash portion forming a fourth aperture for receiving a second tilt latch, wherein the profile of the fourth aperture is substantially common to the profile of the first aperture.
11. The sash of claim 8, wherein the first sash portion comprises a top rail.
12. The sash of claim 8, wherein the second sash portion comprises a bottom rail.
13. The sash of claim 11, wherein the first sash portion further comprises a stile.
14. The sash of claim 12, wherein the second sash portion further comprises a stile.
15. A method of manufacturing a window sash comprising the steps of:
forming a first aperture in a first portion of the window sash; and
forming a second aperture in a second portion of the window sash, wherein the first aperture and the second aperture comprise substantially common profiles and each profile is adapted to receive interchangeably one of a pivot bar and a tilt latch.
16. The method of claim 15, wherein the first aperture and the second aperture are formed in a machining operation.
17. The method of claim 15, wherein the first aperture and the second aperture are formed using a common cutting tool.
18. The method of claim 15, further comprising the step of forming a third aperture in a third portion of the window sash, wherein the first aperture and the third aperture comprise substantially common profiles and each profile is adapted to receive interchangeably one of the pivot bar and the tilt latch.
19. The method of claim 18, further comprising the step of forming a fourth aperture in a fourth portion of the window sash, wherein the second aperture and the fourth aperture comprise substantially common profiles and each profile is adapted to receive interchangeably one of the pivot bar and the tilt latch.
20. A pivot bar for use in a tilt-out window assembly, the pivot bar comprising:

an elongate body defining a groove at least partially circumscribing the body; and
a pivot element extending from the body.

21. The pivot bar of claim 20, wherein the elongate body is substantially planar.
22. The pivot bar of claim 20, wherein the pivot element is adapted to selectively engage a balance shoe.
23. The pivot bar of claim 20, wherein the pivot element is integral with the body.
24. The pivot bar of claim 20, wherein the pivot element is substantially T-shaped.
25. The pivot bar of claim 20, further comprising a tab for retaining the body in a window sash when installed therein.
26. The pivot bar of claim 20, wherein the groove is adapted to operatively engage a profile of an aperture in a sash.
27. The pivot bar of claim 21, wherein the pivot bar further comprises a shoulder from which the pivot element extends, the shoulder comprising an increased thickness relative to the substantially planar elongate body.